

Direct: (divide)

$$\frac{y}{x} = \frac{y}{x}$$

Inverse: (multiply)

$$y \cdot x = y \cdot x$$

Solve these direct variation problems.

1. If $y = 6$ and $x = 3$, what is the value of y when $x = 5$?
2. If $y = 10$ and $x = 5$, what is the value of y when $x = 4$?
3. If $y = 6$ and $x = 2$, what is the value of y when $x = 7$?
4. If $y = 8$ and $x = 4$, what is the value of y when $x = 6$?
5. If $y = 15$ and $x = 3$, what is the value of y when $x = 5$?
6. If $y = 6$ and $x = 1$, what is the value of y when $x = 3$?

Inverse or
Solve these indirect variation problems.

7. If $y = 6$ and $x = 4$, what is the value of y when $x = 8$?
8. If $y = 12$ and $x = 6$, what is the value of y when $x = 8$?
9. If $y = 9$ and $x = 6$, what is the value of y when $x = 3$?
10. If $y = 6$ and $x = 5$, what is the value of y when $x = 3$?
11. If $y = 3$ and $x = 12$, what is the value of y when $x = 9$?
12. If $y = 8$ and $x = 14$, what is the value of y when $x = 7$?

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